CIVIL

AN ISO 9001 : 2008 COMPANY &NABL ACCREDITED LABORATORY AS PER ISO/IEC 17025:2005

4, 7TH MAIN MALLESWARAM, BANGALORE -3

To,
ASSISTANT EXECUTIVE ENGINEER
VIDYARANYAPURA SUB DIVISION
BBMP
BANGALORE

Date: 22-02-2019

Dear Sir,

Sub: M/s. Rudraprasad Consultants Services for the work of Package-1,(Includes 8 works) 1)Improvements to roads and Drains at Krishna Green Apartment Cross Roads at Deshabandunagara in ward no 09 vidyaranyapura,2)Construction of Culverts in Ward No 09vidyaranyapura,3)Improvements to Road and drains at 1st main hanuman layout main road in ward no 09 vidyaranyapura4)Improvements to road and drains at N T Layout 3rd cross in ward no 09 vidyaranyapura,5)Improvements to road and drains at resina from Deshabandunagara in ward no 09 vidyaranyapura,6)Construction of toilet block at samudaya bhavana and balance portion of cincrete road at kempegowdanagara in ward no 09 vidyaranyapura,7)Improvements to road and drains at 9th main Deshabandunagara in ward no 09 vidyaranyapura,8)Improvements to road and drains at behind kote anjaneyaswamy temple cross roads virupakshapura in ward no 09 vidyaranyapura.

Ref: 1. Work Order No: BBMP/EE/BTP/WO/88/2018-19

2. Job code: 009-17-000010, 009-17-000011, 009-17-000012, 009-17-000013, 009-17-000014, 009-17-000015, 009-17-000016, 009-17-000017

We are herewith forwarding to. Alankar K.B #12, MSV Network Road, Near Shobha Appartment, Amruthahalli,Sahakaranagara(P) Bangalore-560092. Third and Final Bill duly verified and certified that the work is satisfactory and for a Gross Value of 2,70,426 /- (Rs. Two Lakhs Seventy Thousand Four Hundred Twenty Six Only).

Yours faithfully,

Thanking you,

For Civil Pro

R. KARTHIK RECHAN
AUTHORIZED SIGNATORY
CIVIL PRO

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2019-02-21-52** **Date: 06-09-2018**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Package-1 (Including 8 Works) 1)Improvements to Roads and Drains at Krishna Green Apartment Cross Roads Deshabhandunagara in Ward No 09, Vidyarantapura. 2)Construction of Culverts in Ward No 09 Vidyaranyapura. 3)Improvements to Roads and Drains at 1st Main Hanuman Layout Main Road in Ward No 09, Vidyaranyapura. 4)Improvements to Roads and Drains at NTI Layout 3rd Cross in Ward No 09, Vidyaranyapura. 5)Improvements to Roads and Drains Resina from Deshabhandunagarain Ward No 09, Vidyaranyapura 6)Construction of Toilet Block at Samudhaya Bhavana and Balance Portion of Concrete Road at Kempegowdanagara in Ward No 09, Vidyaranyapura. 7)Improvements to Roads and Drains at 9th Main Deshabandhunagara in Ward No. 09, Vidyaranyapura. 8)Improvements to Roads and Drainsat Behind Kote Anjaneyaswamy Temple Cross Roads Vidyaranyapura in Ward No.09, Vidyaranyapura.
Agency	:	Sri.Alankar K.B, #12, MSV Network Road, Near Shobha Apartment, Amruthahalli, Sahakaranagara (P), Bangalore-560092.
Customer's Reference	:	BBMP/EE/BTP/WO/88/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	03-09-2018
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	04-09-2018
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	2.46	–
2	Finess by Air permeablity method (m^2/kg,Min)	255.8	225m^2/kg. Min
3	Density (gm/cc)	3.12	–
4	Standard Consistency (%)	28.5%	Not specified
5	Initial Setting time	175 minutes	Not less than 30 minutes
6	Final Setting time	280 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1mm	Not more than 10 mm

Note:

The results pertain to the samples received and tested.

All information furnished by Customer/Representative

Any correction in the report will make this report invalid

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Samples will be disposed after 90 days from the date of issue of test certificate

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

CIVIL Pro Sig Date BANGALORE

****End of Report****

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Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2019-02-21-52** **Date: 02-10-2018**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Package-1 (Including 8 Works) 1)Improvements to Roads and Drains at Krishna Green Apartment Cross Roads Deshabhandunagara in Ward No 09, Vidyarantapura. 2)Construction of Culverts in Ward No 09 Vidyaranyapura. 3)Improvements to Roads and Drains at 1st Main Hanuman Layout Main Road in Ward No 09, Vidyaranyapura. 4)Improvements to Roads and Drains at NTI Layout 3rd Cross in Ward No 09, Vidyaranyapura. 5)Improvements to Roads and Drains Resina from Deshabhandunagarain Ward No 09, Vidyaranyapura 6)Construction of Toilet Block at Samudhaya Bhavana and Balance Portion of Concrete Road at Kempegowdanagara in Ward No 09, Vidyaranyapura. 7)Improvements to Roads and Drains at 9th Main Deshabandhunagara in Ward No. 09, Vidyaranyapura. 8)Improvements to Roads and Drainsat Behind Kote Anjaneyaswamy Temple Cross Roads Vidyaranyapura in Ward No.09, Vidyaranyapura
Agency	:	Sri.Alankar K.B, #12, MSV Network Road, Near Shobha Apartment, Amruthahalli, Sahakaranagara (P), Bangalore-560092.
Customer's Reference	:	BBMP/EE/BTP/WO/88/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	03-09-2018
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	04-09-2018
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	28.0N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.5N/mm^2	Not less than 37 N/mm^2
3	28 Days	58.5N/mm^2	Not less than 53 N/mm^2

AEE (VRP) BBMP

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FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

CIVIL PRO Sig. Date BANGALORE

****End of Report****

Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2019-02-21-52** **Date: 06-09-2018**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Package-1 (Including 8 Works) 1)Improvements to Roads and Drains at Krishna Green Apartment Cross Roads Deshabhandunagara in Ward No 09, Vidyarantapura. 2)Construction of Culverts in Ward No 09 Vidyaranyapura. 3)Improvements to Roads and Drains at 1st Main Hanuman Layout Main Road in Ward No 09, Vidyaranyapura. 4)Improvements to Roads and Drains at NTI Layout 3rd Cross in Ward No 09, Vidyaranyapura. 5)Improvements to Roads and Drains Resina from Deshabhandunagarain Ward No 09, Vidyaranyapura 6)Construction of Toilet Block at Samudhaya Bhavana and Balance Portion of Concrete Road at Kempegowdanagara in Ward No 09, Vidyaranyapura. 7)Improvements to Roads and Drains at 9th Main Deshabandhunagara in Ward No. 09, Vidyaranyapura. 8)Improvements to Roads and Drainsat Behind Kote Anjaneyaswamy Temple Cross Roads Vidyaranyapura in Ward No.09, Vidyaranyapura.
Agency	:	Sri.Alankar K.B, #12, MSV Network Road, Near Shobha Apartment, Amruthahalli, Sahakaranagara (P), Bangalore-560092.
Customer's Reference	:	BBMP/EE/BTP/WO/88/2018-19
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	03-09-2018
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	03-09-2018

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	234	234	1.6	98.4	90-100
3	20 mm	5334	5568	37.1	62.9	30-70
4	10 mm	4788	10356	69.0	31.0	10-35
5	4.75 mm	4354	14710	98.1	1.9	0-5
6	Pan	290	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2019-02-21-52** **Date: 06-09-2018**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	12.2	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.6	
3	Specific Gravity	2.69	–
4	Bulk Density(Loose) (Kg/l)	1.54	–
5	Bulk Density(Compacted) (Kg/l)	1.58	–
6	Water Absorption(%)	0.24	–

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FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

AEE (VRP) SD

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Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2019-02-21-52** **Date: 05-09-2018**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Package-1 (Including 8 Works) 1)Improvements to Roads and Drains at Krishna Green Apartment Cross Roads Deshabhandunagara in Ward No 09, Vidyarantapura. 2)Construction of Culverts in Ward No 09 Vidyaranyapura. 3)Improvements to Roads and Drains at 1st Main Hanuman Layout Main Road in Ward No 09, Vidyaranyapura. 4)Improvements to Roads and Drains at NTI Layout 3rd Cross in Ward No 09, Vidyaranyapura. 5)Improvements to Roads and Drains Resina from Deshabhandunagarain Ward No 09, Vidyaranyapura 6)Construction of Toilet Block at Samudhaya Bhavana and Balance Portion of Concrete Road at Kempegowdanagara in Ward No 09, Vidyaranyapura. 7)Improvements to Roads and Drains at 9th Main Deshabandhunagara in Ward No. 09, Vidyaranyapura. 8)Improvements to Roads and Drainsat Behind Kote Anjaneyaswamy Temple Cross Roads Vidyaranyapura in Ward No.09, Vidyaranyapura.
Agency	:	Sri.Alankar K.B, #12, MSV Network Road, Near Shobha Apartment, Amruthahalli, Sahakaranagara (P), Bangalore-560092.
Customer Reference	:	BBMP/EE/BTP/WO/88/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	03-09-2018
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	03-09-2018

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	245	245	4.9	95.1	90-100
3	10 mm	2675	2920	58.4	41.6	25-55
4	4.75 mm	1798	4718	94.4	5.6	0-10
5	Pan	282	5000	100	0	–

AEE (VRP) BD

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Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2019-02-21-52** **Date: 05-09-2018**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	11.4	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.2	
3	Specific Gravity	2.64	–
4	Bulk Density(Loose) (Kg/l)	1.52	–
5	Bulk Density(Compacted) (Kg/l)	1.56	–
6	Water Absorption(%)	0.24	–
7	Aggregate crushing Value(%)	22.6	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	21.8	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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R KARTHIK RECHAN
Authorized Signature
Quality Manager

AEE (VRP) SD

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End of Report

CIVIL PRO Sig. Date BANGALORE

Format No: CP/TF/01

TEST REPORT OF FINE AGGREGATE

Lab ID	:	**CP-2019-02-21-52** **Date: 05-09-2018**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Package-1 (Including 8 Works) 1)Improvements to Roads and Drains at Krishna Green Apartment Cross Roads Deshabhandunagara in Ward No 09, Vidyarantapura. 2)Construction of Culverts in Ward No 09 Vidyaranyapura. 3)Improvements to Roads and Drains at 1st Main Hanuman Layout Main Road in Ward No 09, Vidyaranyapura. 4)Improvements to Roads and Drains at NTI Layout 3rd Cross in Ward No 09, Vidyaranyapura. 5)Improvements to Roads and Drains Resina from Deshabhandunagarain Ward No 09, Vidyaranyapura 6)Construction of Toilet Block at Samudhaya Bhavana and Balance Portion of Concrete Road at Kempegowdanagara in Ward No 09, Vidyaranyapura. 7)Improvements to Roads and Drains at 9th Main Deshabandhunagara in Ward No. 09, Vidyaranyapura. 8)Improvements to Roads and Drainsat Behind Kote Anjaneyaswamy Temple Cross Roads Vidyaranyapura in Ward No.09, Vidyaranyapura.
Agency	:	Sri.Alankar K.B. #12, MSV Network Road, Near Shobha Apartment, Amruthahalli, Sahakaranagara (P), Bangalore-560092.
Customer's Reference	:	BBMP/EE/BTP/WO/88/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	03-09-2018
Sample Type	:	Fine Aggregate
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1, 3) RA2012 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	03-09-2018
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	82	82	8.2	91.8	90-100	90-100	90-100	95-100
3	2.36 mm	165	247	24.7	75.3	60-95	75-100	85-100	95-100
4	1.18 mm	177	424	42.4	57.6	30-70	55-90	75-100	90-100
5	600 micron	182	606	60.6	39.4	15-34	35-59	60-79	80-100
6	300 micron	177	783	78.3	21.7	5-20	8-30	12-40	15-50
7	150 micron	134	917	91.7	8.3	0-10	0-10	0-10	0-15
8	Pan	83	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

AEE (VRP) SD

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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL
GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES

TEST REPORT OF FINE AGGREGATE

Lab ID : CP-2019-02-21-52 Date: 05-09-2018

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.86	–
2	Specific Gravity	2.59	–
3	Material finer than 75 micron(%)	7.8	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

AEE (VRP) SD

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2019-02-21-52** **Date: 20/09/2018**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Package-1 (Including 8 Works) 1)Improvements to Roads and Drains at Krishna Green Apartment Cross Roads Deshabhandunagara in Ward No 09, Vidyarantapura. 2)Construction of Culverts in Ward No 09 Vidyaranyapura. 3)Improvements to Roads and Drains at 1st Main Hanuman Layout Main Road in Ward No 09, Vidyaranyapura. 4)Improvements to Roads and Drains at NTI Layout 3rd Cross in Ward No 09, Vidyaranyapura. 5)Improvements to Roads and Drains Resina from Deshabhandunagarain Ward No 09, Vidyaranyapura 6)Construction of Toilet Block at Samudhaya Bhavana and Balance Portion of Concrete Road at Kempegowdanagara in Ward No 09, Vidyaranyapura. 7)Improvements to Roads and Drains at 9th Main Deshabandhunagara in Ward No. 09, Vidyaranyapura. 8)Improvements to Roads and Drainsat Behind Kote Anjaneyaswamy Temple Cross Roads Vidyaranyapura in Ward No.09, Vidyaranyapura.

Agency : Sri.Alankar K.B, #12, MSV Network Road, Near Shobha Apartment, Amruthahalli, Sahakaranagara (P), Bangalore-560092.

Customer's Reference : BBMP/EE/BTP/WO/88/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 15-09-2018

Customer ID : M20 Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 20/09/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 Concrete	M20	13/09/2018	20/09/2018	149.44 X 150.31 X 151.01	22462	8.637	414.8	18.5	18.3
2	M20 Concrete	M20	13/09/2018	20/09/2018	151.64 X 150.72 X 151.54	22855	8.289	414.0	18.1	
3	M20 Concrete	M20	13/09/2018	20/09/2018	151.11 X 151.55 X 151.38	22900	8.958	422.1	18.4	

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AEE (VRP) SD

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	CP-2019-02-21-52 **Date: 11/10/2018**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Package-1 (Including 8 Works) 1)Improvements to Roads and Drains at Krishna Green Apartment Cross Roads Deshabhandunagara in Ward No 09, Vidyarantapura. 2)Construction of Culverts in Ward No 09 Vidyaranyapura. 3)Improvements to Roads and Drains at 1st Main Hanuman Layout Main Road in Ward No 09, Vidyaranyapura. 4)Improvements to Roads and Drains at NTI Layout 3rd Cross in Ward No 09, Vidyaranyapura. 5)Improvements to Roads and Drains Resina from Deshabhandunagarain Ward No 09, Vidyaranyapura 6)Construction of Toilet Block at Samudhaya Bhavana and Balance Portion of Concrete Road at Kempegowdanagara in Ward No 09, Vidyaranyapura. 7)Improvements to Roads and Drains at 9th Main Deshabandhunagara in Ward No. 09, Vidyaranyapura. 8)Improvements to Roads and Drainsat Behind Kote Anjaneyaswamy Temple Cross Roads Vidyaranyapura in Ward No.09, Vidyaranyapura.
Agency	:	Sri.Alankar K.B, #12, MSV Network Road, Near Shobha Apartment, Amruthahalli, Sahakaranagara (P), Bangalore-560092.
Customer's Reference	:	BBMP/EE/BTP/WO/88/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	15-09-2018
Customer ID	:	M20 Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	11/10/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 Concrete	M20	13/09/2018	11/10/2018	149.01 X 151.26 X 151.00	22538	**8.404**	533.2	23.7	23.3
2	M20 Concrete	M20	13/09/2018	11/10/2018	149.40 X 150.54 X 151.45	22490	**8.336**	507.4	22.6	
3	M20 Concrete	M20	13/09/2018	11/10/2018	149.79 X 149.68 X 150.49	22420	**8.210**	531.9	23.7	

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FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

AEE (VRP) SD

****End of Report****

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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL
GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES

Format No: CP/TF/01

TEST REPORT ON PHYSICAL REQUIREMENTS OF SOLID CONCRETE BLOCKS

Lab ID	:	**CP-2019-02-21-52** **Date: 10-09-2018**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Package-1 (Including 8 Works) 1)Improvements to Roads and Drains at Krishna Green Apartment Cross Roads Deshabhandunagara in Ward No 09, Vidyarantapura. 2)Construction of Culverts in Ward No 09 Vidyaranyapura. 3)Improvements to Roads and Drains at 1st Main Hanuman Layout Main Road in Ward No 09, Vidyaranyapura. 4)Improvements to Roads and Drains at NTI Layout 3rd Cross in Ward No 09, Vidyaranyapura. 5)Improvements to Roads and Drains Resina from Deshabhandunagarain Ward No 09, Vidyaranyapura 6)Construction of Toilet Block at Samudhaya Bhavana and Balance Portion of Concrete Road at Kempegowdanagara in Ward No 09, Vidyaranyapura. 7)Improvements to Roads and Drains at 9th Main Deshabandhunagara in Ward No. 09, Vidyaranyapura. 8)Improvements to Roads and Drainsat Behind Kote Anjaneyaswamy Temple Cross Roads Vidyaranyapura in Ward No.09, Vidyaranyapura.
Agency	:	Sri.Alankar K.B, #12, MSV Network Road, Near Shobha Apartment, Amruthahalli, Sahakaranagara (P), Bangalore-560092.
Customer's Reference	:	BBMP/EE/BTP/WO/88/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	07-09-2018
Sample Type/Size	:	Solid concrete blocks size (400X150X200)mm
Reference to BIS codes	:	IS : 2185 (Part 1) : 2005(RA 2010) Concrete Masonry Specification Part 1:Hollow and Solid Concrete Blocks (Dimensions -Annex-B, Clause 9.2 and 10 , Block density Annex -C Clause 9.3 and10, Compressive strength Annex -D Clause 9.4 and 10, Water absorption Annex -E Clause 9.5 and 10)
Date of test	:	07-09-2018

BLOCK DENSITY:

Sl. No.	Measurement of overall Dimensions of Individual Blocks			Overall Volume of the Block in Cubic Centimetres	Weight of Oven Dried Block in Kilograms to the nearest 10 Gram	Block Density in Kg/cum*10^6	Avg.Block Density in (Kg/cum)	As per IS 2185(Part 1) :2005 (RA 2010)
	Length	Breadth	Height					
	mm	mm	mm	(Cm^3)	Kg	Kg/m^3	Kg/m^3	
1	402	152	203	12404	31.750	2559.6	2568.6	Not less than 1800Kg/m^3
2	401	153	201	12332	31.630	2564.9		
3	402	152	202	12343	31.860	2581.2		

WATER ABSORPTION:

Sl. No.	Wet weight after water absorption	Dry weight (Oven dry)	Water Absorption	Avg.Water Absorption	As per IS 2185(Part 1):2005 (RA 2010)
	kg	kg	%	%	
1	26.130	24.820	5.28	5.27	Shall not be more than 10% by mass
2	26.120	24.800	5.32		
3	25.820	24.540	5.22		

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ID : CP-2019-02-21-52 Date: 10-09-2018

DIMENSION ANALYSIS

Sl.no	Length mm	Breadth mm	Height mm	Requirement as per IS 2185(Part 1):2005
1	402	152	201	Length : ± 5mm Breadth : ± 3mm Height : ± 3mm
2	401	151	203	
3	403	153	201	
4	402	151	203	
5	401	153	201	
6	402	152	199	
7	403	151	202	
8	401	153	201	
9	403	151	203	
10	401	153	201	
11	402	152	203	
12	403	153	201	
13	401	151	200	
14	402	153	201	
15	401	150	203	
16	403	152	201	
17	401	151	203	
18	402	153	201	
19	403	150	203	
20	404	153	201	
Average of 20	**402**	**152**	**202**	

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: CP-2019-02-21-52 Date: 10-09-2018

COMPRESSIVE STRENGTH:

Sl. No.	Size of solid block		Area	Failure Load	Compressive strength	Average Compressive strength
	Length	Breadth				
	mm	mm	(mm^2)	(KN)	N/mm^2	(N/mm^2)
1	402	152	61104	354.6	5.8	5.5
2	401	151	60551	322.8	5.3	
3	403	153	61659	323.1	5.2	
4	402	151	60702	329.9	5.4	
5	401	153	61353	345.2	5.6	
6	402	152	61104	333.9	5.5	
7	403	151	60853	313.6	5.2	
8	401	153	61353	351.5	5.7	

As per IS Requirements (Table 2, Clause 5.1, 5.2 and 9.4)

Compressive strength		
Grade	Minimum average	Minimum Individual units.
C (5.0)	5.00 N/mm^2	4.00 N/mm^2
C (4.0)	4.00 N/mm^2	3.20 N/mm^2

Note:
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TEST RESULTS OF STEEL

Lab ID : CP-2019-02-21-52 **Date: 12-09-2018**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Package-1 (Including 8 Works) 1)Improvements to Roads and Drains at Krishna Green Apartment Cross Roads Deshabhandunagara in Ward No 09, Vidyarantapura. 2)Construction of Culverts in Ward No 09 Vidyaranyapura. 3)Improvements to Roads and Drains at 1st Main Hanuman Layout Main Road in Ward No 09, Vidyaranyapura. 4)Improvements to Roads and Drains at NTI Layout 3rd Cross in Ward No 09, Vidyaranyapura. 5)Improvements to Roads and Drains Resina from Deshabhandunagarain Ward No 09, Vidyaranyapura 6)Construction of Toilet Block at Samudhaya Bhavana and Balance Portion of Concrete Road at Kempegowdanagara in Ward No 09, Vidyaranyapura. 7)Improvements to Roads and Drains at 9th Main Deshabandhunagara in Ward No 09, Vidyaranyapura. 8)Improvements to Roads and Drainsat Behind Kote Anjaneyaswamy Temple Cross Roads Vidyaranyapura in Ward No.09, Vidyaranyapura.

Agency : Sri.Alankar K.B, #12, MSV Network Road, Near Shobha Apartment, Amruthahalli, Sahakaranagara (P), Bangalore-560092.

Customer's Reference : BBMP/EE/BTP/WO/88/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 11-09-2018

Sample Type : Sunvik

Reference to BIS codes : IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.

Date of test: : 11-09-2018

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Sunvik	Fe500	8	0.393	512	652	20.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	10	0.618	528	672	20.0%	Satisfactory	Satisfactory
3	Sunvik	Fe500	12	0.887	544	668	20.0%	Satisfactory	Satisfactory

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TEST REPORT OF CERAMIC TILES

Lab ID	:	**CP-2019-02-21-52** **Date: 22-09-2018**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Package-1 (Including 8 Works) 1)Improvements to Roads and Drains at Krishna Green Apartment Cross Roads Deshabhandunagara in Ward No 09, Vidyarantapura. 2)Construction of Culverts in Ward No 09 Vidyaranyapura. 3)Improvements to Roads and Drains at 1st Main Hanuman Layout Main Road in Ward No 09, Vidyaranyapura. 4)Improvements to Roads and Drains at NTI Layout 3rd Cross in Ward No 09, Vidyaranyapura. 5)Improvements to Roads and Drains Resina from Deshabhandunagarain Ward No 09, Vidyaranyapura 6)Construction of Toilet Block at Samudhaya Bhavana and Balance Portion of Concrete Road at Kempegowdanagara in Ward No 09, Vidyaranyapura. 7)Improvements to Roads and Drains at 9th Main Deshabandhunagara in Ward No. 09, Vidyaranyapura. 8)Improvements to Roads and Drainsat Behind Kote Anjaneyaswamy Temple Cross Roads Vidyaranyapura in Ward No.09, Vidyaranyapura.
Agency	:	Sri.Alankar K.B, #12, MSV Network Road, Near Shobha Apartment, Amruthahalli, Sahakaranagara (P), Bangalore-560092.
Customer's Reference	:	BBMP/EE/BTP/WO/88/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	18-09-2018
Sample Type/ Size	:	Ceramic tiles (300X600)mm
Reference to BIS codes	:	IS 13630 (part 1) : 2006, IS 15622:2006
Date of test	:	18-09-2018

MEASUREMENTS OF LENGTH, WIDTH AND THICKNESS

Number Of Specimen	Length measured at position 5mm from the corner		Breadth measured at position 5mm from the corner		Thickness measured at thickest part, 4 diagonal segment			
	1	2	1	2	1	2	3	4
1	300	300	600	600	6.04	6.01	6.08	6.04
2	300	300	600	600	6.01	6.03	6.01	6.01
3	300	300	600	600	6.03	6.01	6.03	6.03
4	300	300	600	600	6.06	6.05	6.08	6.06
5	300	300	600	600	6.08	6.01	6.05	6.08
6	300	300	600	600	6.03	6.07	6.03	6.07
7	300	300	600	600	6.01	6.01	6.01	6.01
8	300	300	600	600	6.02	6.01	6.04	6.01
9	300	300	600	600	6.04	6.04	6.02	6.04
10	300	300	600	600	6.04	6.01	6.05	6.04
Average	**300**		**600**		**6.04**			

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TEST REPORT OF CERAMIC TILES

WATER ABSORPTION

Sl.no	Weight of oven dry sample	Saturated weight of sample	Water absorption by mass	Average value of water absorption
1	1202	1245	3.58	3.13
2	1211	1244	2.73	
3	1254	1295	3.27	
4	1204	1251	3.90	
5	1231	1258	2.19	

MODULUS OF RUPTURE AND BREAKING STRENGTH

Sl.No

Sl.No.	Dimension (mm)			Wet Transverse Strength	Average
	L	B	T	(N/mm^2)	(N/mm^2)
1	300	600	6.02	12.5	12.36
2	300	600	6.03	12.4	
3	300	600	6.01	12.9	
4	300	600	6.07	11.9	
5	300	600	6.05	12.1	

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